Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_\_\_

HW17: Parallel Lines Cut by a Transversal Pt. II

**Geometry  
Due: Friday, September 30th**

**Failure to show all work and write in complete sentences will result in LaSalle!**

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| 1. In the figure below, lines *a* and *b* are parallel, and 9 = 100. Find 1. | 2. In the figure below, segments *MA* and *HT* are parallel. HMA, MAT, ATH, and THM are all right angles. If 5 = 75 and what is the 4?  2  5  6  3  7  4  1  H  T  M  A |
| 3. In the figure below, lines *p* and *q* are parallel. Which of the following must be true?     1. 5 = 2 2. 6 = 4 3. 5 + 7 = 180 4. 5 + 6 = 180 5. None of the above   Justify your response | 4. In the figure below, lines *l* and *m* are parallel. Find the indicated angle.  45  ?  *l*  130 o o  *m* |
| 5. The measure of one angle is 7 times the measure of its complement. Find the measure of each angle. | |